

# Brian Derby

## List of Publications by Year in descending order

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295  
papers

16,338  
citations

22099

59  
h-index

18075

120  
g-index

304  
all docs

304  
docs citations

304  
times ranked

16735  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of twin boundaries and sample dimensions on the mechanical behavior of Ag nanowires. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 829, 142150.	2.6	6
2	Impact of polymorphism on mechanical properties of molecular crystals: a study of <i>p</i> -amino and <i>p</i> -nitro benzoic acid with nanoindentation. <i>CrystEngComm</i> , 2021, 23, 2027-2033.	1.3	7
3	Probing anisotropic mechanical behaviour in carbamazepine form III. <i>CrystEngComm</i> , 2021, 23, 5826-5838.	1.3	4
4	Brittle Behavior in Aspirin Crystals: Evidence of Spalling Fracture. <i>Crystal Growth and Design</i> , 2021, 21, 1786-1790.	1.4	4
5	Fabrication of microvascular constructs using high resolution electrohydrodynamic inkjet printing. <i>Biofabrication</i> , 2021, 13, 035006.	3.7	27
6	Chemical Vapor Deposition of Graphene on Cu-Ni Alloys: The Impact of Carbon Solubility. <i>Coatings</i> , 2021, 11, 892.	1.2	3
7	Twist boundary defects in penta-twinned silver nanowires. <i>Microscopy and Microanalysis</i> , 2021, 27, 2928-2930.	0.2	0
8	Stability of Lines with Zero Receding Contact Angle Produced by Inkjet Printing at Small Drop Volume. <i>Langmuir</i> , 2021, 37, 26-34.	1.6	15
9	Atmospheric Pressure Catalytic Vapor Deposition of Graphene on Liquid In and Cu-In Alloy Substrates. <i>Catalysts</i> , 2021, 11, 1318.	1.6	1
10	Patterned, morphing composites <i>via</i> maskless photo-click lithography. <i>Soft Matter</i> , 2020, 16, 1270-1278.	1.2	3
11	The formation mechanism of hexagonal Mo <sub>2</sub> C defects in CVD graphene grown on liquid copper. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2176-2180.	1.3	13
12	Geometrical constraints on the bending deformation of Penta-twinned silver nanowires. <i>Acta Materialia</i> , 2020, 185, 110-118.	3.8	11
13	Acoustic Poration and Dynamic Healing of Mammalian Cell Membranes during Inkjet Printing. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 749-757.	2.6	9
14	Isomechanical Groups in Molecular Crystals and Role of Aromatic Interactions. <i>Crystal Growth and Design</i> , 2020, 20, 7516-7525.	1.4	5
15	Nanoindentation of Molecular Crystals: Lessons Learned from Aspirin. <i>Crystal Growth and Design</i> , 2020, 20, 5956-5966.	1.4	31
16	High-Power Energy Storage from Carbon Electrodes Using Highly Acidic Electrolytes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20701-20711.	1.5	3
17	Fluid/Fiber Interactions and the Conductivity of Inkjet Printed Ag on Textile Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 45516-45524.	4.0	12
18	Atmospheric Pressure Catalytic Vapor Deposition of Graphene on Liquid Sn and Cu-Sn Alloy Substrates. <i>Nanomaterials</i> , 2020, 10, 2150.	1.9	3

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19	Aberrant Differentiation of Human Pluripotent Stem Cell-Derived Kidney Precursor Cells inside Mouse Vascularized Bioreactors. <i>Nephron</i> , 2020, 144, 509-524.	0.9	5
20	Tiled Monolayer Films of 2D Molybdenum Disulfide Nanoflakes Assembled at Liquid/Liquid Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25125-25134.	4.0	18
21	The systemic influence of chronic smoking on skin structure and mechanical function. <i>Journal of Pathology</i> , 2020, 251, 420-428.	2.1	13
22	Probing Ink-Powder Interactions during 3D Binder Jet Printing Using Time-Resolved X-ray Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 34254-34264.	4.0	32
23	Chemical vapour deposition of graphene on copper-nickel alloys: the simulation of a thermodynamic and kinetic approach. <i>Nanoscale</i> , 2020, 12, 15283-15294.	2.8	13
24	Oil-in-water separation with graphene-based nanocomposite membranes for produced water treatment. <i>Journal of Membrane Science</i> , 2020, 603, 118007.	4.1	144
25	Size effects on strength and plasticity of ferrite and austenite pillars in a duplex stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 793, 139883.	2.6	12
26	Fatigue and the electrical resistance of silver nanowire networks. <i>Scripta Materialia</i> , 2020, 181, 97-100.	2.6	9
27	Direct 3D printing of graphene using capillary suspensions. <i>Nanoscale</i> , 2020, 12, 11440-11447.	2.8	26
28	Water-based highly conductive graphene inks for fully printed humidity sensors. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 455304.	1.3	20
29	Screen-Printing of a Highly Conductive Graphene Ink for Flexible Printed Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 32225-32234.	4.0	174
30	Angiogenesis and tissue formation driven by an arteriovenous loop in the mouse. <i>Scientific Reports</i> , 2019, 9, 10478.	1.6	15
31	The size dependent strength of Fe, Nb and V micropillars at room and low temperature. <i>Materialia</i> , 2019, 7, 100424.	1.3	14
32	Synthetic 2-D lead tin sulfide nanosheets with tuneable optoelectronic properties from a potentially scalable reaction pathway. <i>Chemical Science</i> , 2019, 10, 1035-1045.	3.7	16
33	Experimental study of the parameters for stable drop-on-demand inkjet performance. <i>Physics of Fluids</i> , 2019, 31, .	1.6	136
34	A definition of bioinks and their distinction from biomaterial inks. <i>Biofabrication</i> , 2019, 11, 013001.	3.7	480
35	Supercapacitor Electrodes from the in Situ Reaction between Two-Dimensional Sheets of Black Phosphorus and Graphene Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10330-10338.	4.0	44
36	Structural, Mechanical, Imaging and in Vitro Evaluation of the Combined Effect of Gd <sup>3+</sup> and Dy <sup>3+</sup> in the ZrO <sub>2</sub> -SiO <sub>2</sub> Binary System. <i>Inorganic Chemistry</i> , 2018, 57, 4602-4612.	1.9	8

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37	Interdependence of Resistance and Optical Transmission in Conductive Nanowire Networks. <i>Advanced Theory and Simulations</i> , 2018, 1, 1700011.	1.3	10
38	Fully printed high performance humidity sensors based on two-dimensional materials. <i>Nanoscale</i> , 2018, 10, 5599-5606.	2.8	142
39	Black phosphorus with near-superhydrophobic properties and long-term stability in aqueous media. <i>Chemical Communications</i> , 2018, 54, 3831-3834.	2.2	28
40	Biofabrication: A Guide to Technology and Terminology. <i>Trends in Biotechnology</i> , 2018, 36, 384-402.	4.9	465
41	Tetragonal to Cubic Transformation of SiO <sub>2</sub> -Stabilized ZrO <sub>2</sub> Polymorph through Dysprosium Substitutions. <i>Inorganic Chemistry</i> , 2017, 56, 1273-1281.	1.9	25
42	Inkjet printing ultra-large graphene oxide flakes. <i>2D Materials</i> , 2017, 4, 021021.	2.0	49
43	Stabilization of a t-ZrO <sub>2</sub> polymorph in a glassy SiO <sub>2</sub> matrix at elevated temperatures accomplished by ceria additions. <i>Dalton Transactions</i> , 2017, 46, 6884-6893.	1.6	23
44	Solution processing of two-dimensional black phosphorus. <i>Chemical Communications</i> , 2017, 53, 1445-1458.	2.2	63
45	Peptide hydrogel <i>in vitro</i> non-inflammatory potential. <i>Journal of Peptide Science</i> , 2017, 23, 148-154.	0.8	23
46	Two-Step Electrochemical Intercalation and Oxidation of Graphite for the Mass Production of Graphene Oxide. <i>Journal of the American Chemical Society</i> , 2017, 139, 17446-17456.	6.6	211
47	Controlling Coffee Ring Formation during Drying of Inkjet Printed 2D Inks. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700944.	1.9	78
48	Integrating Cell Sheets for Organ-on-a-chip Applications. <i>Procedia CIRP</i> , 2017, 65, 127-130.	1.0	1
49	Rising to the challenge: applying biofabrication approaches for better drug and chemical product development. <i>Biofabrication</i> , 2017, 9, 033001.	3.7	22
50	Implication of Free Fatty Acids in Thrombin Generation and Fibrinolysis in Vascular Inflammation in Zucker Rats and Evolution with Aging. <i>Frontiers in Physiology</i> , 2017, 8, 949.	1.3	11
51	Biomechanical Changes of Collagen Cross-Linking on Human Keratoconic Corneas Using Scanning Acoustic Microscopy. <i>Current Eye Research</i> , 2016, 41, 1-7.	0.7	9
52	Microstructure Evolution and Hardness of an Ultra-High Strength Cu-Ni-Si Alloy During Thermo-mechanical Processing. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 2615-2625.	1.2	13
53	A pilot study of scanning acoustic microscopy as a tool for measuring arterial stiffness in aortic biopsies. <i>Artery Research</i> , 2016, 13, 1.	0.3	16
54	Frequency-modulated atomic force microscopy localises viscoelastic remodelling in the ageing sheep aorta. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 64, 10-17.	1.5	16

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55	An ex vivo porcine skin model to evaluate pressure-reducing devices of different mechanical properties used for pressure ulcer prevention. <i>Wound Repair and Regeneration</i> , 2016, 24, 1089-1096.	1.5	10
56	Pristine Graphene Aerogels by Room-Temperature Freeze Gelation. <i>Advanced Materials</i> , 2016, 28, 7993-8000.	11.1	123
57	Biofabrication: reappraising the definition of an evolving field. <i>Biofabrication</i> , 2016, 8, 013001.	3.7	523
58	Activation of SMAD2 upon compressive load occurs exclusively in regions of cartilage where matrix stiffness is relatively low. <i>Osteoarthritis and Cartilage</i> , 2016, 24, S152.	0.6	0
59	Additive Manufacture of Ceramics Components by Inkjet Printing. <i>Engineering</i> , 2015, 1, 113-123.	3.2	184
60	High throughput cryopreservation of cells by rapid freezing of sub- $\mu$ l drops using inkjet printing cryoprinting. <i>Lab on A Chip</i> , 2015, 15, 3503-3513.	3.1	23
61	Mechanical properties of porous ceramic scaffolds: Influence of internal dimensions. <i>Ceramics International</i> , 2015, 41, 8425-8432.	2.3	175
62	Tin(II) Sulfide (SnS) Nanosheets by Liquid-Phase Exfoliation of Herzenbergite: IV-VI Main Group Two-Dimensional Atomic Crystals. <i>Journal of the American Chemical Society</i> , 2015, 137, 12689-12696.	6.6	220
63	Inkjet printing biomaterials for tissue engineering: bioprinting. <i>International Materials Reviews</i> , 2014, 59, 430-448.	9.4	262
64	Wide-Area Strain Sensors based upon Graphene-Polymer Composite Coatings Probed by Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2014, 24, 2865-2874.	7.8	122
65	Biomechanical Changes After Repeated Collagen Cross-Linking on Human Corneas Assessed In Vitro Using Scanning Acoustic Microscopy. , 2014, 55, 1549.		23
66	Growth differentiation factor 6 and transforming growth factor-beta differentially mediate mesenchymal stem cell differentiation, composition, and micromechanical properties of nucleus pulposus constructs. <i>Arthritis Research and Therapy</i> , 2014, 16, R67.	1.6	122
67	Inkjet Printing Graphene-Based Transparent Conductive Films. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1699, 36.	0.1	1
68	Combining AFM and Acoustic Probes to Reveal Changes in the Elastic Stiffness Tensor of Living Cells. <i>Biophysical Journal</i> , 2014, 107, 1502-1512.	0.2	40
69	Localized micro- and nano-scale remodelling in the diabetic aorta. <i>Acta Biomaterialia</i> , 2014, 10, 4843-4851.	4.1	22
70	Influence of specimen thickness on the nanoindentation of hydrogels: Measuring the mechanical properties of soft contact lenses. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 35, 144-156.	1.5	32
71	Scanning acoustic microscopy of biological cryosections: the effect of local thickness on apparent acoustic wave speed. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1621, 143-148.	0.1	0
72	Vinculin Regulates the Recruitment and Release of Core Focal Adhesion Proteins in a Force-Dependent Manner. <i>Current Biology</i> , 2013, 23, 271-281.	1.8	310

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73	Influence of Gas Phase Equilibria on the Chemical Vapor Deposition of Graphene. ACS Nano, 2013, 7, 3104-3117.	7.3	59
74	Scanning Acoustic Microscopy for Mapping the Microelastic Properties of Human Corneal Tissue. Current Eye Research, 2013, 38, 437-444.	0.7	26
75	Current concepts and advances in the application of tissue engineering in otorhinolaryngology and head and neck surgery. Journal of Laryngology and Otology, 2013, 127, 114-120.	0.4	9
76	Biomechanical Properties of Human Corneas Following Low- and High-Intensity Collagen Cross-Linking Determined With Scanning Acoustic Microscopy. , 2013, 54, 5273.		52
77	Continuous Deposition of a Liquid Thread onto a Moving Substrate. Numerical Analysis and Comparison With Experiments. Journal of Fluids Engineering, Transactions of the ASME, 2012, 134, .	0.8	10
78	Printing and Prototyping of Tissues and Scaffolds. Science, 2012, 338, 921-926.	6.0	962
79	Formation of Coffee Stains on Porous Surfaces. Langmuir, 2012, 28, 5331-5338.	1.6	61
80	Inkjet printed carbon nanotube networks: the influence of drop spacing and drying on electrical properties. Journal Physics D: Applied Physics, 2012, 45, 315304.	1.3	21
81	Gel-cast glass-ceramic tissue scaffolds of controlled architecture produced via stereolithography of moulds. Biofabrication, 2012, 4, 045002.	3.7	22
82	Multi-layer phase analysis: quantifying the elastic properties of soft tissues and live cells with ultra-high-frequency scanning acoustic microscopy. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 610-620.	1.7	23
83	Photopolymerization of Pluronic F127 diacrylate: a colloid-templated polymerization. Soft Matter, 2011, 7, 4928.	1.2	40
84	Inkjet printing and cell seeding thermoreversible photocurable gel structures. Soft Matter, 2011, 7, 2639.	1.2	61
85	Inkjet Printing of Zirconia: Coffee Staining and Line Stability. Journal of the American Ceramic Society, 2011, 94, 3787-3792.	1.9	61
86	Inkjet printing ceramics: From drops to solid. Journal of the European Ceramic Society, 2011, 31, 2543-2550.	2.8	289
87	Localised micro-mechanical stiffening in the ageing aorta. Mechanisms of Ageing and Development, 2011, 132, 459-467.	2.2	45
88	The mechanical properties of float glass surfaces measured by nanoindentation and acoustic microscopy. Acta Materialia, 2011, 59, 1790-1799.	3.8	26
89	Characterizing the elastic properties of tissues. Materials Today, 2011, 14, 96-105.	8.3	273
90	Deformation mechanisms in gold nanowires and nanoporous gold. Philosophical Magazine, 2011, 91, 1070-1083.	0.7	52

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91	Quantifying Micro-mechanical Properties of Soft Biological Tissues with Scanning Acoustic Microscopy. Materials Research Society Symposia Proceedings, 2011, 1301, 181.	0.1	5
92	Pyrolysis of aluminium loaded polymethylsiloxanes: the influence of Al/PMS ratio on mullite formation. Journal of Materials Science, 2010, 45, 233-241.	1.7	4
93	High-strength nanoporous silver produced by inkjet printing. Scripta Materialia, 2010, 63, 308-311.	2.6	35
94	Strain gradients and the strength of nanoporous gold. Journal of Materials Research, 2010, 25, 746-753.	1.2	15
95	The Effect of Type 1 Diabetes on the Structure and Function of Fibrillin Microfibrils. Materials Research Society Symposia Proceedings, 2010, 1274, 1.	0.1	4
96	Mapping Micro-Mechanical and Micro-Structural Changes in the Ageing Aorta. Biophysical Journal, 2010, 98, 594a.	0.2	0
97	Formation and Stability of Lines Produced by Inkjet Printing. Langmuir, 2010, 26, 10365-10372.	1.6	213
98	Inkjet Printing of Functional and Structural Materials: Fluid Property Requirements, Feature Stability, and Resolution. Annual Review of Materials Research, 2010, 40, 395-414.	4.3	1,465
99	Inkjet Printing of Catalyst-Inks on Si Wafers and the Subsequent Synthesis of Carbon Nanotubes by Chemical Vapour Deposition. Key Engineering Materials, 2010, 442, 7-14.	0.4	5
100	Inkjet delivery of glucose oxidase. Chemical Communications, 2010, 46, 5452.	2.2	28
101	Piezoelectric Inkjet Printing of Cells and Biomaterials. , 2010, , 35-50.		3
102	Low Curing Temperature Silver Tracks from Soluble Inks. Materials Research Society Symposia Proceedings, 2009, 1192, 21.	0.1	0
103	Inkjet Printing of Enzymes for Glucose Sensors. Materials Research Society Symposia Proceedings, 2009, 1191, 86.	0.1	2
104	Novel Gelation System For Fabricating 3-D Structures via Ink Jet Printing. Materials Research Society Symposia Proceedings, 2009, 1239, 1.	0.1	0
105	The Micromechanisms of Deformation in Nanoporous Gold. Materials Research Society Symposia Proceedings, 2009, 1224, 1.	0.1	0
106	Nanoindentation of histological specimens: Mapping the elastic properties of soft tissues. Journal of Materials Research, 2009, 24, 638-646.	1.2	73
107	A universal scaling law for the strength of metal micropillars and nanowires. Scripta Materialia, 2009, 61, 524-527.	2.6	130
108	Diversity of funding sources and topics is key to survival. Nature, 2009, 458, 281-281.	13.7	1

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109	Limits to feature size and resolution in ink jet printing. Journal of the European Ceramic Society, 2009, 29, 913-918.	2.8	155
110	Inkjet Printing Glucose Oxidase for Biosensor Applications. ECS Transactions, 2009, 16, 15-20.	0.3	4
111	Universal Scaled Strength Behaviour for Micropillars and Nanoporous Materials. Materials Research Society Symposia Proceedings, 2009, 1185, 79.	0.1	1
112	Conical tungsten stamps for the replication of pore arrays in anodic aluminium oxide films. Nanotechnology, 2009, 20, 245304.	1.3	6
113	Fabrication of a Glucose Biosensor by Piezoelectric Inkjet Printing. , 2009, , .		13
114	Delivery of human fibroblast cells by piezoelectric drop-on-demand inkjet printing. Biomaterials, 2008, 29, 193-203.	5.7	438
115	Residual stress distributions around indentations and scratches in polycrystalline Al <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> /SiC nanocomposites measured using fluorescence probes. Acta Materialia, 2008, 56, 140-149.	3.8	37
116	Duplication and plagiarism increasing among students. Nature, 2008, 452, 29-29.	13.7	13
117	The strength of gold nanowire forests. Scripta Materialia, 2008, 59, 151-154.	2.6	59
118	Bioprinting: inkjet printing proteins and hybrid cell-containing materials and structures. Journal of Materials Chemistry, 2008, 18, 5717.	6.7	289
119	Manufacture of 3-dimensional objects by reactive inkjet printing. Soft Matter, 2008, 4, 2513.	1.2	18
120	The Growth and Mechanical Properties of Gold Nanowires. Materials Research Society Symposia Proceedings, 2008, 1086, 1.	0.1	2
121	The Strength of Gold Nanowires and Nanoporous Gold. Materials Research Society Symposia Proceedings, 2008, 1144, 1.	0.1	1
122	Mapping the Micromechanical Properties of Cryo-sectioned Aortic Tissue with Scanning Acoustic Microscopy. Materials Research Society Symposia Proceedings, 2008, 1132, ukpmcpa27262.	0.1	10
123	Nanoindentation of Histological Specimens using an Extension of the Oliver and Pharr Method. Materials Research Society Symposia Proceedings, 2008, 1097, 1.	0.1	2
124	The Strength of Nanoporous Gold: Strain Gradient and Intrinsic Size Effects. , 2008, , .		0
125	Correlations for single-crystal elastic constants of compound semiconductors and their representation in isomechanical groups. Physical Review B, 2007, 76, .	1.1	25
126	Review: Bioprinting: A Beginning. Tissue Engineering, 2006, 12, 631-634.	4.9	286



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127	Mullite formation from the pyrolysis of aluminium-loaded polymethylsiloxanes: The influence of aluminium powder characteristics. <i>Journal of the European Ceramic Society</i> , 2006, 26, 1107-1119.	2.8	10
128	Direct ink-jet printing and low temperature conversion of conductive silver patterns. <i>Journal of Materials Science</i> , 2006, 41, 4153-4158.	1.7	239
129	The effect of focused ion beam machining on residual stress and crack morphologies in alumina. <i>Journal of Physics: Conference Series</i> , 2006, 26, 219-222.	0.3	15
130	Perspectives on the European Patent System. <i>Journal of World Intellectual Property</i> , 2005, 1, 949-962.	0.2	0
131	Viscosity and Acoustic Behavior of Ceramic Suspensions Optimized for Phase-Change Ink-Jet Printing. <i>Journal of the American Ceramic Society</i> , 2005, 88, 802-808.	1.9	46
132	Ink-Jet Printing and Sintering of PZT. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2053-2058.	1.9	85
133	Intermediate Phases in Mullite Synthesis Via Aluminum and Alumina Filled Polymethylsiloxane. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2085-2091.	1.9	16
134	A Low Curing Temperature Silver Ink for Use in Ink-Jet Printing and Subsequent Production of Conductive Tracks. <i>Macromolecular Rapid Communications</i> , 2005, 26, 315-318.	2.0	285
135	Oscillatory Incompressible Fluid Flow in a Tapered Tube With a Free Surface in an Inkjet Print Head. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2005, 127, 98-109.	0.8	23
136	Ink-jet delivery of particle suspensions by piezoelectric droplet ejectors. <i>Journal of Applied Physics</i> , 2005, 97, 094903.	1.1	274
137	Ink-Jet Printing of Wax-Based PZT Suspensions. <i>Key Engineering Materials</i> , 2004, 264-268, 697-700.	0.4	0
138	Ink Jet printing of mammalian primary cells for tissue engineering applications. <i>Materials Research Society Symposia Proceedings</i> , 2004, 845, 71.	0.1	5
139	Droplet Behaviour in Inkjet Printing. <i>Materials Research Society Symposia Proceedings</i> , 2004, 860, 13.	0.1	1
140	In Situ Characterization of Interfaces between Liquid Tin-Vanadium Alloys and Alumina by Neutron Reflection Spectroscopy. <i>Journal of the American Ceramic Society</i> , 2004, 87, 279-285.	1.9	10
141	Characterisation of Interfaces Between Liquid Tin and Alumina in the Presence of Titanium Alloy Additions. <i>Journal of Materials Science</i> , 2004, 12, 29-37.	1.2	5
142	Preparation of PZT suspensions for direct ink jet printing. <i>Journal of the European Ceramic Society</i> , 2004, 24, 1069-1072.	2.8	36
143	Modelling of R-curve behaviour in ceramic-metal laminates. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 365, 196-201.	2.6	4
144	Numerical and experimental comparisons of mass transport rate in a piezoelectric drop-on-demand inkjet print head. <i>International Journal of Mechanical Sciences</i> , 2004, 46, 181-199.	3.6	33

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145	Thermal stress induced microcracking in alumina-20% SiCp composites. Acta Materialia, 2004, 52, 1621-1629.	3.8	45
146	Measured Anisotropy of Alumina Components Produced by Direct Ink-Jet Printing. Key Engineering Materials, 2004, 264-268, 693-696.	0.4	11
147	Characterisation of void and reinforcement distributions in a metal matrix composite by X-ray edge-contrast microtomography. Scripta Materialia, 2003, 48, 1259-1264.	2.6	11
148	Yttrium Silicate Powders Produced by the Sol-Gel Method, Structural and Thermal Characterization.. ChemInform, 2003, 34, no.	0.1	0
149	Novel collagen scaffolds with predefined internal morphology made by solid freeform fabrication. Biomaterials, 2003, 24, 1487-1497.	5.7	324
150	Multilayer nitride coatings by closed field unbalanced magnetron sputter ion plating. Surface and Coatings Technology, 2003, 162, 276-287.	2.2	21
151	Yttrium Silicate Powders Produced by the Sol-Gel Method, Structural and Thermal Characterization. Journal of the American Ceramic Society, 2003, 86, 1595-1597.	1.9	32
152	Inkjet Printing of Highly Loaded Particulate Suspensions. MRS Bulletin, 2003, 28, 815-818.	1.7	264
153	Oscillatory limited compressible fluid flow induced by the radial motion of a thick-walled piezoelectric tube. Journal of the Acoustical Society of America, 2003, 114, 1314-1321.	0.5	26
154	Characterisation of Collagen Scaffolds using X-ray Microtomography. Materials Research Society Symposia Proceedings, 2002, 758, 521.	0.1	0
155	Thermal and Residual Stress Modelling of the Selective Laser Sintering Process. Materials Research Society Symposia Proceedings, 2002, 758, 181.	0.1	11
156	Development of PZT Suspensions for Ceramic Ink-Jet Printing. Materials Research Society Symposia Proceedings, 2002, 758, 371.	0.1	1
157	A Process to Make Collagen Scaffolds with an Artificial Circulatory System using Rapid Prototyping. Materials Research Society Symposia Proceedings, 2002, 758, 531.	0.1	3
158	Freeform fabrication by controlled droplet deposition of powder filled melts. Journal of Materials Science, 2002, 37, 3155-3161.	1.7	66
159	Materials opportunities in layered manufacturing technology. Journal of Materials Science, 2002, 37, 3091-3092.	1.7	4
160	Manufacture of biomaterials by a novel printing process. Journal of Materials Science: Materials in Medicine, 2002, 13, 1163-1166.	1.7	53
161	Accurate determination of Young's modulus and Poisson's ratio of thin films by a combination of acoustic microscopy and nanoindentation. Thin Solid Films, 2001, 398-399, 299-305.	0.8	65
162	Analysis of Drop-on-Demand Ink Jet Print Head for Rapid Prototyping. Materials Research Society Symposia Proceedings, 2001, 698, 451.	0.1	0

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163	Direct Ink Jet Printing of Alumina Components. Materials Research Society Symposia Proceedings, 2001, 698, 441.	0.1	1
164	Accurate Determination of the Elastic properties of Near Surface Regions and Thin Films Using Nanoindentation and Acoustic Microscopy. Materials Research Society Symposia Proceedings, 2001, 695, 1.	0.1	0
165	Detection of particle damage event by acoustic emission during tensile straining of SiC particle reinforced aluminium alloy composites. International Journal of Materials and Product Technology, 2001, 16, 58.	0.1	1
166	Residual stress and subsurface damage in machined alumina and alumina/silicon carbide nanocomposite ceramics. Acta Materialia, 2001, 49, 507-517.	3.8	63
167	Ink Jet Printing of Wax Based Alumina Suspensions. Journal of the American Ceramic Society, 2001, 84, 2514-2520.	1.9	207
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